

# Shaping Up

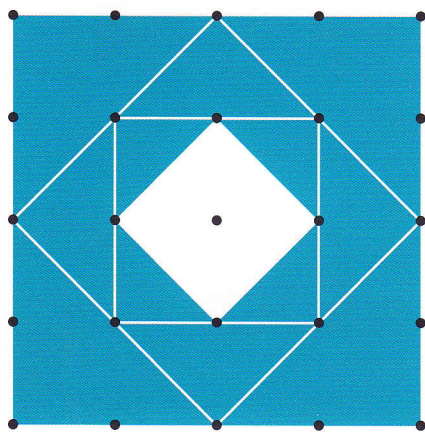
You need ☒ triangular dot paper

☒ a classmate

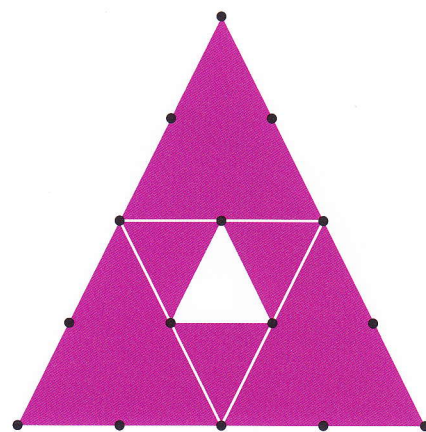
## Activity

- 1 For each of the pictures, what fraction of the total area is the white shape? Explain how you worked out your answer.

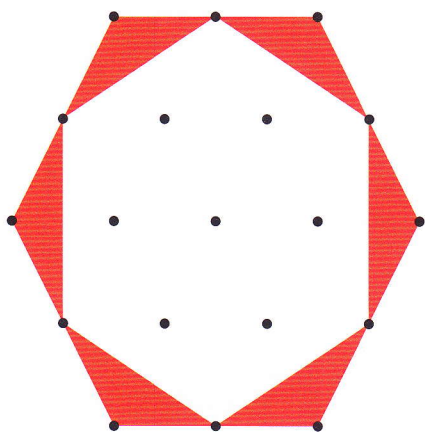
a.



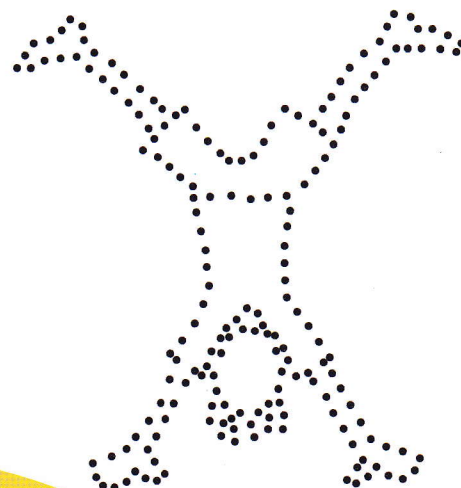
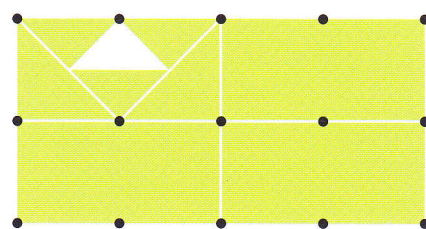
b.



c.

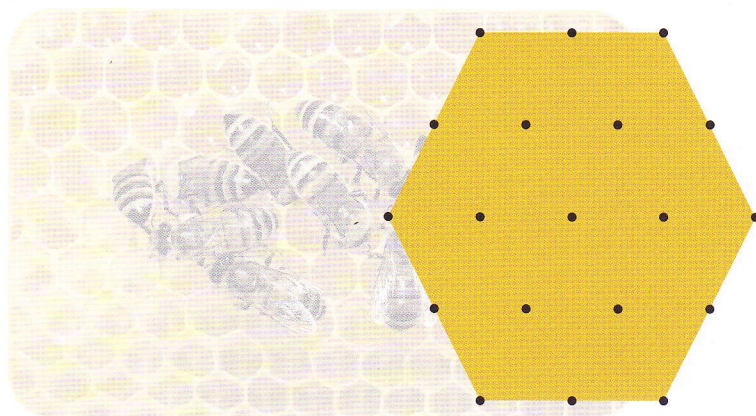


d.

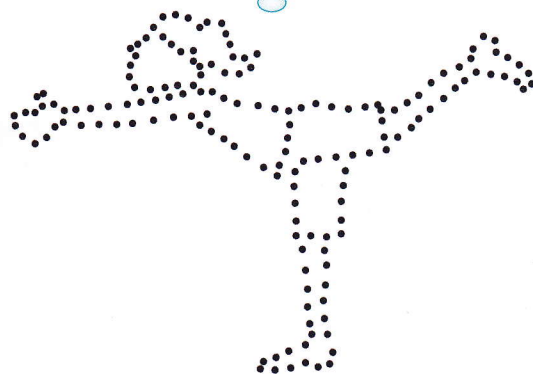




2. On triangular dot paper, draw at least four hexagons like this. Using straight lines only to divide them up, what fractions of the shape can you create?



*I think I've gone dotted.*



3. On triangular dot paper, draw at least four triangles like this. Using straight lines only to divide them up, what fractions of the shape can you create?



4. a. There are at least 10 ways of dividing the triangle above into quarters, using only straight lines. How many can you find?  
b. Do the white lines divide the green triangle into quarters? Explain your reasoning to a classmate.

